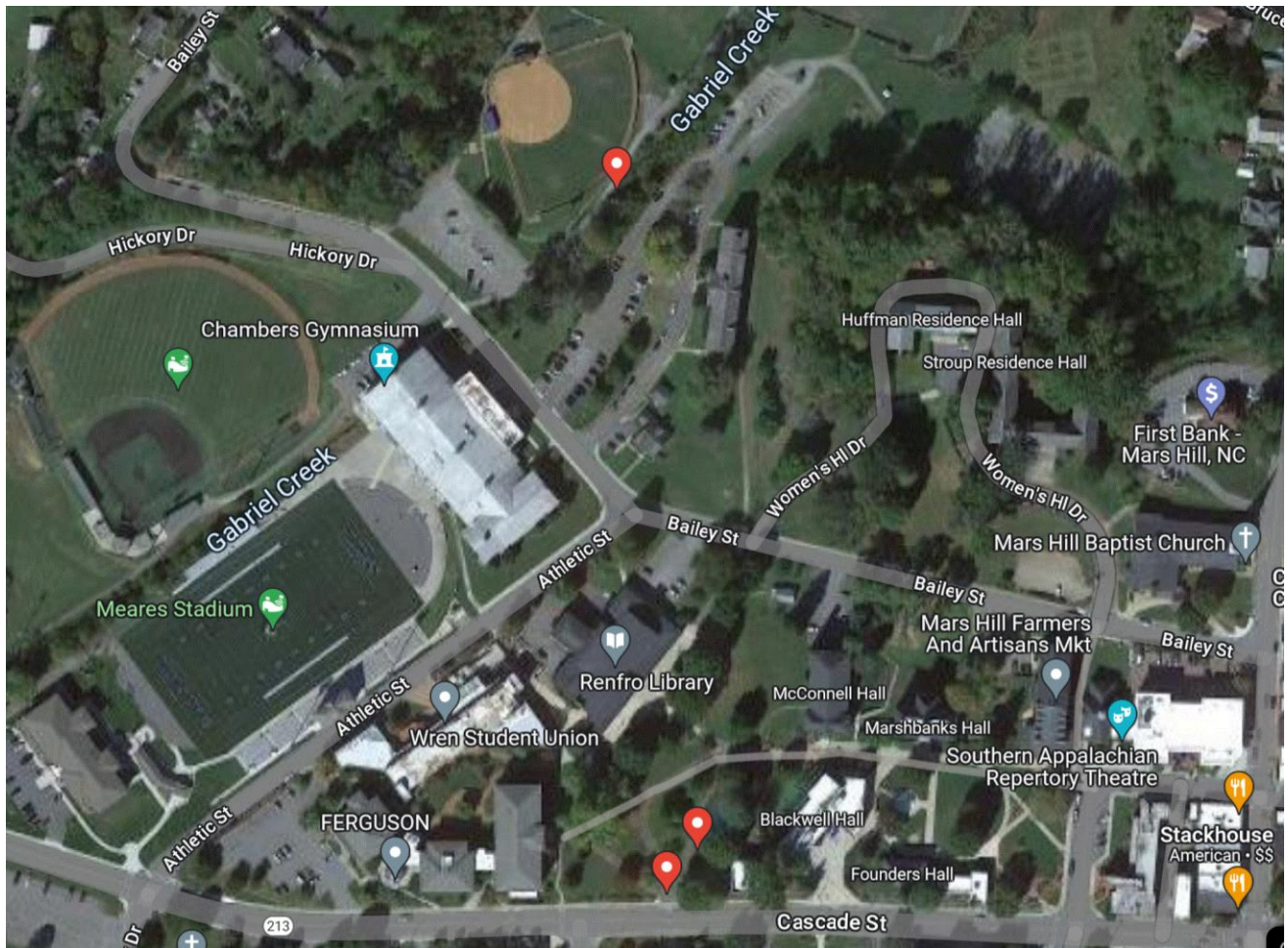


# Mars Hill Sidewalk Pedestrian Count

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**Time Period:** Monday October 30, 2023, through Sunday November 5, 2023

**Location:** Located on the right fork of the sidewalk running along Blackwell Hall. The counter was mounted on a light pole on the east side of the sidewalk, north of NC-213.



(Image: Google Maps)

**Equipment:** EcoCounter Pyro Counter, set out on October 5, and retrieved October 12, 2023

The Pyro Counter is able to count bicyclists, pedestrians, skateboarders, rollerbladers, or anyone who passes within approximately 16.5 feet of the equipment. However, the device is unable to differentiate between the different users and simply counts them as general users.

Possible sources of error include facility-users walking side-by-side or very close to each other; this is likely to include people walking or running side-by-side, children being held by a parent or walking along side of them, or dense groups of users. It is unclear how many users are likely to have been missed due to these circumstances and there has been no effort to make up for this likely discrepancy.

## Results

### Mars Hill - University Sidewalk - NC-213

Total Users	290
Users/Hour	1.7
Peak 24-Hour Usage	69
Peak Day	Monday October 30, 2023
Peak 2-Hour Usage Period	32
Peak 2-Hour Date and Time	Tuesday October 31, Noon-2PM

<b>Total Users</b>	<b>1,454</b>
<b>Users/Hour</b>	<b>8.7</b>
<b>Peak 24-Hour Usage</b>	<b>344</b>
<b>Peak Day</b>	<b>Thursday, February 29<sup>th</sup></b>
<b>Peak 2-Hour Period</b>	<b>95</b>
<b>Peak 2-Hour Day &amp; Time</b>	<b>10:00 – 12:00 P.M. Thursday, February 29<sup>th</sup></b>

Two locations were surveyed during the week between Monday October 30<sup>th</sup> and Sunday November 5<sup>th</sup>. The first location was the Dr. Otis Duck Pedestrian and Bicycle trail. The second location was on the walking path on Mars Hill University, just north of NC-213. This counter, on a plastic light pole with a slightly irregular shape.

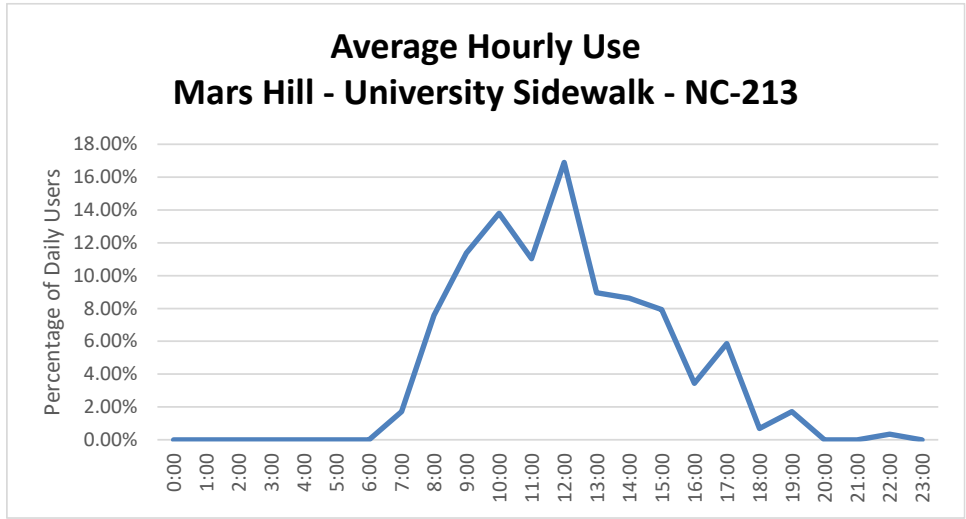
This is the second survey at the Campus Sidewalk in proximity to Blackwell Hall. The first survey was performed between Monday January 6, 2015, and Sunday February 2, 2015. The 2023 pin is slightly north of the 2015 pin. There is a noticeable difference between the two weekday/weekend graphs. There was much more weekend activity during 2015 – almost equally distributed, by percentage of activity, as compared to the weekday activity.

The Dr. Otis Duck Greenway was opened since the 2015 survey was performed. It is possible that people who may have walked the campus for exercise are now using the trail instead of the sidewalk. There were 2213 trail users on the Dr. Otis Duck trail during the same week that this sidewalk survey was performed. There were 290 pedestrians counted on the sidewalk.

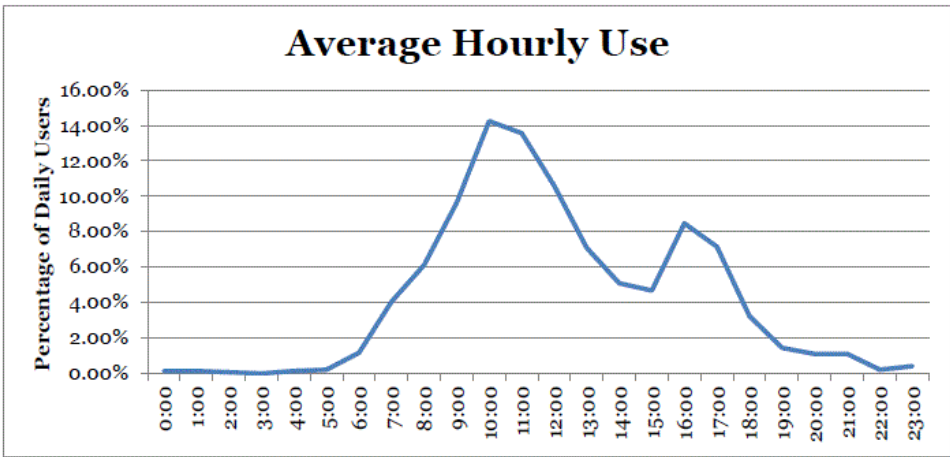
## Patterns of Use

The following chart illustrates the average use of the sidewalk at the count location. This includes both weekday and weekend data and has greater weekday representation.

2023

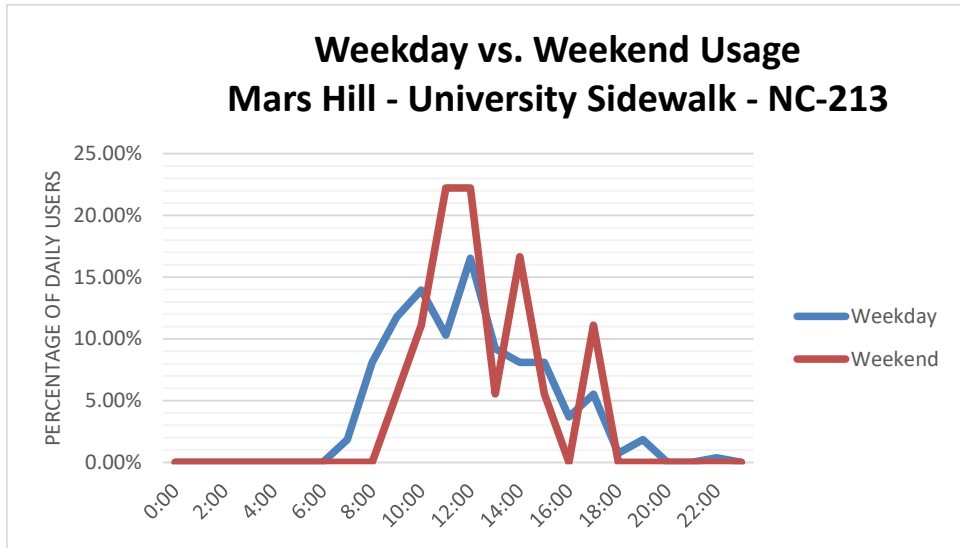


2015

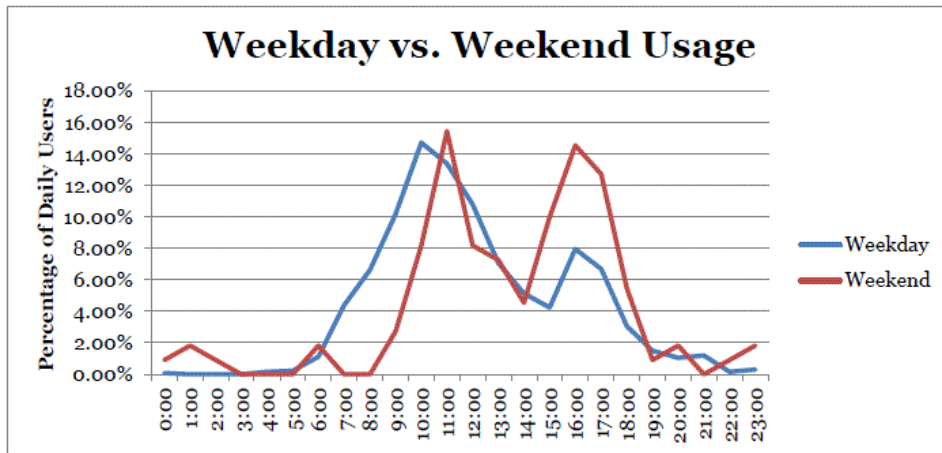


The second chart illustrates the different pattern of usage between the weekday and weekend.

2023

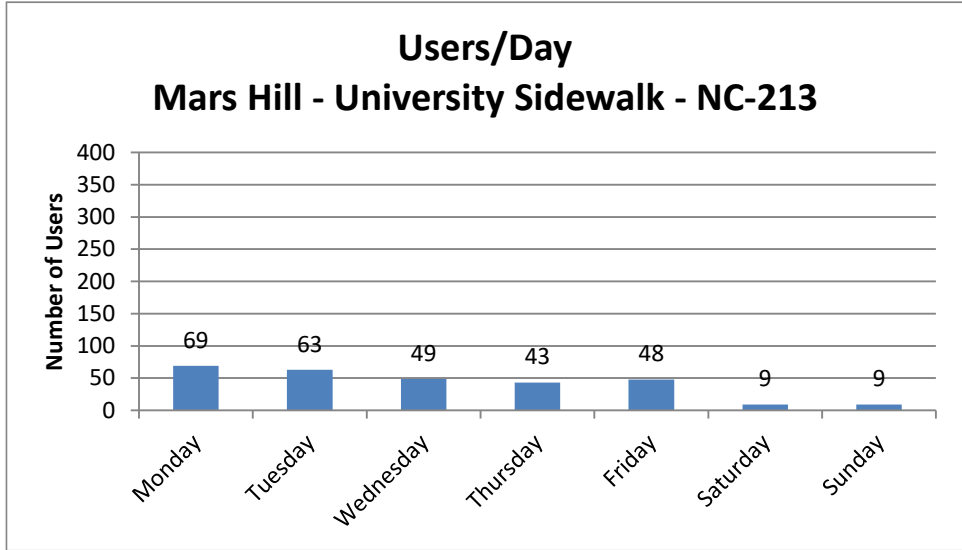


2015

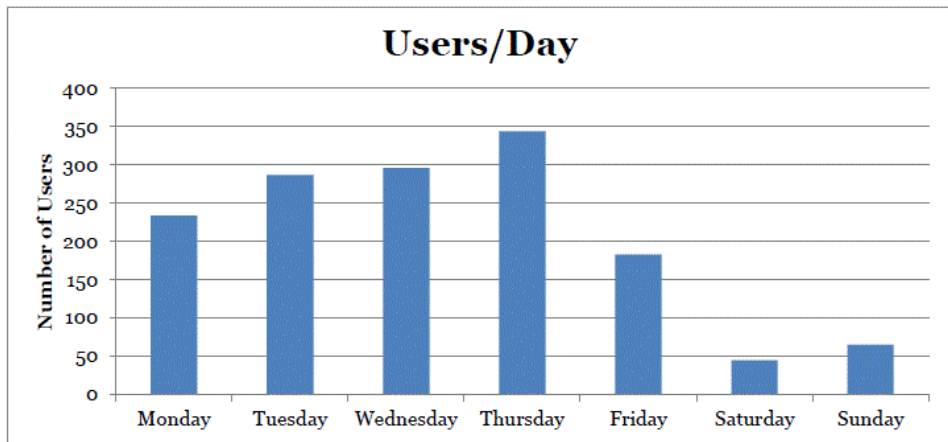


The third chart shows users/day.

2023



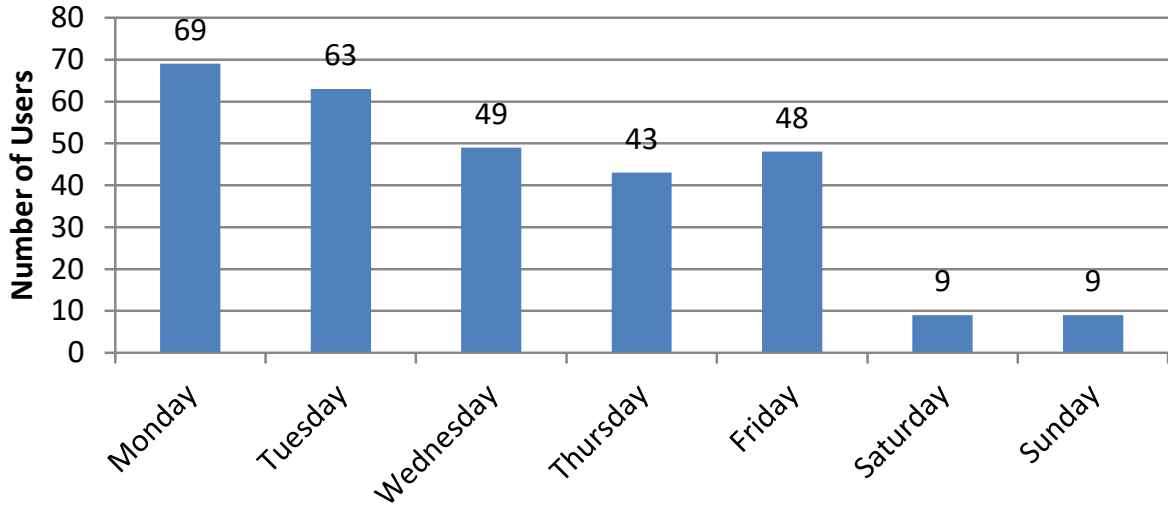
2015



## Notes

Standard Version of Histogram to better show daily variation

## Users/Day Mars Hill - University Sidewalk - NC-213



Daily Observations - Mars Hill																
Time	Temperature (°F)		Dew Point (°F)			Humidity (%)			Wind Speed (mph)			Pressure (in)			Precipitation (in)	
Date	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Total
10/30/2023	76.6 °F	56.3 °F	47.4 °F	60.2 °F	51.0 °F	43.3 °F	99 %	85 %	45 %	15.6 mph	1.8 mph	0.0 mph	29.64 in	29.50 in	0.01 in	0.03
10/31/2023	48.5 °F	44.4 °F	35.2 °F	44.2 °F	39.0 °F	21.3 °F	96 %	82 %	54 %	12.3 mph	1.6 mph	0.0 mph	29.66 in	29.57 in	0.00 in	0
11/1/2023	46	36.5	28	25	16.9	14	64	46.3	29	28	14.4	0	28.1	27.9	27.8	0
11/2/2023	56.1 °F	34.2 °F	18.6 °F	25.8 °F	19.7 °F	14.1 °F	94 %	62 %	21 %	9.8 mph	1.0 mph	0.0 mph	30.02 in	29.89 in	0.00 in	0
11/3/2023	66.9 °F	41.1 °F	23.9 °F	28.5 °F	21.9 °F	7.1 °F	90 %	56 %	10 %	10.5 mph	1.1 mph	0.0 mph	29.99 in	29.85 in	0.00 in	0
11/4/2023	70.5 °F	46.2 °F	27.1 °F	34.3 °F	26.4 °F	20.3 °F	84 %	53 %	17 %	9.6 mph	1.1 mph	0.0 mph	29.90 in	29.73 in	0.00 in	0
11/5/2023	70.8 °F	51.6 °F	40.6 °F	45.6 °F	37.9 °F	31.1 °F	89 %	62 %	37 %	10.2 mph	1.5 mph	0.0 mph	29.75 in	29.62 in	0.00 in	0

<https://www.wunderground.com/dashboard/pws/KNCMARSH175/table/2023-10-27/2023-10-27/monthly>  
<https://www.wunderground.com/history/monthly/us/nc/mars-hill/KNCMARSH175>



